

Data Validation Report

Project/Site Name: OMEGA CHEMICAL SUPERFUND SITE

Report Number: 123014

Parameters: Wet Chemistry (Chemical Oxygen Demand)

Method: EPA 410.4

Laboratory: MWH Laboratories, Monrovia, CA

Sample ID	Sample Description	Sampling Date	Matrix
OC2-MW1A-W-0-1	Field Sample	3/2/04	Water
OC2-MW1B-W-0-2	Field Sample	3/2/04	Water
OC2-MW2A-W-0-4	Field Sample	3/2/04	Water

Introduction/Summary

This data review report covers the sample delivery group and associated samples listed on the cover sheet. The analyses were per Standard Methods for the Examination of Water and Wastewater, 18th edition, Method EPA 410.4 (Chemical Oxygen Demand). The quality assurance and quality control procedures (QA/QC) were per the project requirements and the individual method requirements.

This review is based on the methods and project requirements. The sections detail noted deviations if any. Tables summarizing all data qualification flags are provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified project protocols or is of a technical advisory nature per sample matrix or method limitation.

Data qualifiers, if any, are summarized at the end of this report.

The data qualifiers that are used those in the EPA Validation Functional Guidelines and are defined as follows:

U – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

J – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

N – The analysis indicates the presence of an analyte for which there is presumptive evidence to make a “tentative identification.”

NJ – The analysis indicates the presence of an analyte that has been “tentatively identified” and the associated numerical value represents its approximate concentration.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

I. Technical Holding Times

Samples were analyzed within 28 days of collection as required for chemical oxygen demand analysis.

II. Blanks

Method blanks were prepared and analyzed for each analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits and no detects were reported.

III. Accuracy and Precision Data

a. Surrogate Recovery

Not applicable for these methods.

b. Laboratory Control Sample

Laboratory control spike/Laboratory control spike duplicate (LCS/LCSD) were analyzed with this batch. Percent recoveries (LCS 100.6% and LCSD 101.6%) and RPD (0.99%) were within the QC limit..

c. Matrix Spike/Matrix Spike Duplicates

No MS/MSD analysis is reported.

IV. Sample Result Verification

Sample quantitation algorithms and sample detection levels were per method requirements.

V. Overall Assessment

Data are found to be usable with the qualifications noted in the summary tables below, if any.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Data Qualification
Summary – Report # 123014**

No data have been qualified within this SDG.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Blanks
Qualification Summary –Report # 123014**

No data have been qualified due to blanks within this SDG.

Data Validation Report

Project/Site Name: OMEGA CHEMICAL SUPERFUND SITE

Report Number: 123118

Parameters: Wet Chemistry (Chemical Oxygen Demand)

Method: EPA 410.4

Laboratory: MWH Laboratories, Monrovia, CA

Sample ID	Sample Description	Sampling Date	Matrix
OC2-MW4A-W-0-5	Field Sample	3/3/04	Water
OC2-MW4A-W-1-6	Field Sample	3/3/04	Water
OC2-MW4B-W-0-7	Field Sample	3/3/04	Water
OC2-MW4C-W-0-8	Field Sample	3/3/04	Water
OC2-MW5A-W-0-9	Field Sample	3/3/04	Water
OC2-MW6A-W-0-10	Field Sample	3/3/04	Water
OC2-MW6A-W-1-11	Field Sample	3/3/04	Water

Introduction/Summary

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This review is based on the methods and Project QAPP. The sections detail noted deviations if any. Tables summarizing all data qualification flags are provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified project protocols or is of a technical advisory nature per sample matrix or method limitation.

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NJ – The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.

UJ – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.

R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

I. Technical Holding Times

Samples were analyzed within 28 days of collection as required for chemical oxygen demand analysis.

II. Blanks

Method blanks were prepared and analyzed for each analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits and no detects were reported.

III. Accuracy and Precision Data

a. Surrogate Recovery

Not applicable for these methods.

b. Laboratory Control Sample

Laboratory control spike/Laboratory control spike duplicate (LCS/LCSD) were analyzed with this batch. Percent recoveries (LCS 100.6% and LCSD 101.6%) and RPD (0.99%) were within the QC limit..

c. Matrix Spike/Matrix Spike Duplicates

No MS/MSD analysis is reported.

IV. Sample Result Verification

Sample quantitation algorithms and sample detection levels were per method requirements.

V. Overall Assessment

Data are found to be usable with the qualifications noted in the summary tables below, if any..

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Data
Qualification Summary – Report # 123118**

No data have been qualified within this SDG.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Blanks
Qualification Summary –Report # 123118**

No data have been qualified due to blanks within this SDG.

Data Validation Report

Project/Site Name: OMEGA CHEMICAL SUPERFUND SITE

Report Number: 123191

Parameters: Wet Chemistry (Chemical Oxygen Demand)

Method: EPA 410.4

Laboratory: MWH Laboratories, Monrovia, CA

Sample ID	Sample Description	Sampling Date	Matrix
OC2-MW8A-W-0-12	Field Sample	3/4/04	Water
OC2-MW8B-W-0-13	Field Sample	3/4/04	Water
OC2-MW8C-W-0-14	Field Sample	3/4/04	Water
OC2-MW8D-W-0-15	Field Sample	3/4/04	Water
OC2-MW9B-W-0-17	Field Sample	3/4/04	Water
OC2-MW10A-W-0-18	Field Sample	3/4/04	Water
OC2-MW11A-W-0-19	Field Sample	3/4/04	Water

Introduction/Summary

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R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

I. Technical Holding Times

Samples were analyzed within 28 days of collection as required for chemical oxygen demand analysis.

II. Blanks

Method blanks were prepared and analyzed for each analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits and no detects were reported.

III. Accuracy and Precision Data

a. Surrogate Recovery

Not applicable for these methods.

b. Laboratory Control Sample

Laboratory control spike/Laboratory control spike duplicate (LCS/LCSD) were analyzed with this batch. Percent recoveries (LCS 100.6% and LCSD 101.6%) and RPD (0.99%) were within the QC limit.

c. Matrix Spike/Matrix Spike Duplicates

No MS/MSD analysis is reported.

IV. Sample Result Verification

Sample quantitation algorithms and sample detection levels were per method requirements.

V. Overall Assessment

Data are found to be usable with the qualifications noted in the summary tables below.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Data
Qualification Summary – Report # 123191**

No data have been qualified within this SDG.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Blanks
Qualification Summary –Report # 123191**

No data have been qualified due to blanks within this SDG.

Data Validation Report

Project/Site Name: OMEGA CHEMICAL SUPERFUND SITE

Report Number: 123240

Parameters: Wet Chemistry (Chemical Oxygen Demand)

Method: EPA 410.4

Laboratory: MWH Laboratories, Monrovia, CA

Sample ID	Sample Description	Sampling Date	Matrix
OC2-MW7A-W-0-20	Field Sample	3/5/04	Water
OC2-MW3A-W-0-21	Field Sample	3/5/04	Water

Introduction/Summary

This data review report covers the sample delivery group and associated samples listed on the cover sheet. The analyses were per Standard Methods for the Examination of Water and Wastewater, 18th edition, Method EPA 410.4 (Chemical Oxygen Demand). The quality assurance and quality control procedures (QA/QC) were per the project and the individual method requirements.

This review is based on the method and project requirements. The sections detail noted deviations if any. Tables summarizing all data qualification flags are provided at the end of this report. Flags are classified as P (protocol) or A (advisory) to indicate whether the flag is due to a laboratory deviation from specified project protocols or is of a technical advisory nature per sample matrix or method limitation.

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R – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

I. Technical Holding Times

Samples were analyzed within 28 days of collection as required for chemical oxygen demand analysis.

II. Blanks

Method blanks were prepared and analyzed for each analytical batch.

The concentrations of analytes in the method blanks were less than the reporting limits and no detects were reported.

III. Accuracy and Precision Data

a. Surrogate Recovery

Not applicable for these methods.

b. Laboratory Control Sample

Laboratory control spike/Laboratory control spike duplicate (LCS/LCSD) were analyzed with this batch. Percent recoveries (LCS 100.6% and LCSD 101.6%) and RPD (0.99%) were within the QC limit.

c. Matrix Spike/Matrix Spike Duplicates

No MS/MSD analysis is reported.

IV. Sample Result Verification

Sample quantitation algorithms and sample detection levels were per method requirements.

V. Overall Assessment

Data are found to be usable with the qualifications noted in the summary tables below, if any.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Data
Qualification Summary – Report # 123240**

No data have been qualified within this SDG.

**OMEGA CHEMICAL SUPERFUND SITE Chemical Oxygen Demand Blanks
Qualification Summary –Report # 123240**

No data have been qualified due to blanks within this SDG.